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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/035,819	11/08/2001	Anatoly Maksimchuk	2115D-001905	1781
27572 7	7590 09/09/2003			
HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 828 BLOOMFIELD HILLS, MI 48303			EXAMINER	
			RICHARDSON, JOHN A	
			ART UNIT	PAPER NUMBER
			3641	
			DATE MAILED: 09/09/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicati n No.	Applicant(s)			
	10/035,819	MAKSIMCH	MAKSIMCHUK ET AL.			
Office Action Summary	Examiner	Art Unit				
	John Richardson					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replif to period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by staturent and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, howe ply within the statutory min d will apply and will expire s te, cause the application to	ver, may a reply be timely filed imum of thirty (30) days will be conside SIX (6) MONTHS from the mailing date become ABANDONED (35 U.S.C. §	of this communication.			
Status						
1) Responsive to communication(s) filed on 14		1				
,	his action is non-fi					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) Claim(s) 1-20 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.					
8) Claim(s) 1-20 are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	gn priority under 35) U.S.C. § 119(a)-(d) or (f).				
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	4)	Interview Summary (PTO-413) F Notice of Informal Patent Applica Other:				

Application/Control Number: 10/035,819

Art Únit: 3641

DETAILED ACTION

Page 2

Election/Restrictions

1). Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for

prosecution on the merits to which the claims shall be restricted if no generic claim is

finally held to be allowable. Currently, claims 1, 15 are considered to be generic.

This application contains claims directed to the following patentably distinct species of

the claimed invention:

A. The embodiment wherein the irradiation target is a solid (includes claims 6,

16).

B. The embodiment wherein the irradiation target is a liquid jet (includes claims

6, 16).

C. The embodiment wherein the irradiation target is a droplet jet (includes claims

6, 16).

2). Upon election of any of the species set forth above as A, B, C, the applicant is

further required under 35 U.S.C. 121 to elect a single disclosed species for prosecution

on the merits to which the claims shall be restricted if no generic claim is finally held to

be allowable.

2

Art Unit: 3641

- E. The embodiment wherein the particle beam is of protons (includes claims 9,19).
- F. The embodiment wherein the particle beam is of deuterons (includes claims 9, 19).
- G. The embodiment wherein the particle beam is of tritons (includes claims 9,19).
- 3). Upon election of any of the species set forth above as E, F, G, the applicant is further required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Elect one single specie for the secondary target from boron, carbon, nitrogen, oxygen, and neon (includes claims 10, 20).

4). Upon election of the species set forth above as E, the applicant is further required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Elect one single specie for the secondary target from boron-11, boron-10, nitrogen-14, oxygen-16, nitrogen-15, and oxygen-18 (includes claim 11).

Application/Control Number: 10/035,819

Page 4

Art Unit: 3641

5). Upon election of the species set forth above as F, the applicant is further required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Elect one single specie for the secondary target from boron-10, carbon-12, nitrogen-14, and neon-20 (includes claim 12).

6). Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over

Application/Control Number: 10/035,819

Art Unit: 3641

the prior art, the evidence or admission may be used in a rejection under 35

U.S.C. 103(a) of the other invention.

7). Any inquiry concerning this communication or earlier communications from the

examiner should be directed to John Richardson whose telephone number is (703) 305

0764. The examiner can normally be reached on Monday to Thursday from 7.00 AM to

4.30 PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Carone, can be reached on (703) 306 4198. The fax phone number

for the organization where this application or proceeding is assigned is (703) 305 7687.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308

1113.

John Richardson, PE,

September 04 2003.

Page 5

5